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# UNIVERSITY OF TORONTO <br> Faculty of Dentistry <br> <br> ANNUAL EXAMINATIONS 

 <br> <br> ANNUAL EXAMINATIONS}

1968
$148-1.16 .16^{68}$

## First Dental Year BIOCHEMISTRY

No paper available




[^0]1. Name the following compound
(TOTAL MARKS: 200)
General Instructions:
2. Use structural formulae wherever possible.
3. Notice that in some questions you have been given a choice.
If all questions are answered when this is not required, the last
ones will be omitted in the grading.
4. Check your examination paper to ensure that you have all 13 pages.








20 5. Write the structural formula of the peptide glycylalanine | and write down equations which may be used to synthesize it from |
| :--- |
| its component a-amino-acids. |


6. Write equations showing how six of the following transformations may



First Dental Year GROSS ANATOMY

No paper available

WIVERSITY OF TORONTO
Faculty of Dentistry ANNUAL EXAMNATIONS, 1968

## FIRST YEAR

ORAL ATIATOMY AND OCCLUSION吘

has The examination reveels that the occurred

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## Illuatrate senaratelv the above conditions ( $1,2,3,4,5 \mathrm{a}$, dental anatomy.

$$
\begin{aligned}
& \text { 1. Straight terminal p } \\
& \text { 2. Leeway space in the } \\
& \text { 3. A late mesial shift } \\
& \text { 4. Secondary spacing, } \\
& \text { 5. A carious lesion in }
\end{aligned}
$$

- 



 (e) The mesial triangular fossa of the primary

## Straight terminal plane dantition.

A major proportion of the marks will be allotted for your
knowledge of the dental snatoray of the teeth concerned.
 systemic condition during the first yoar of life which
caused enamel hypnplasia of the develcping dentition.

> With your knowledge of the chronology of the dentition,
Variations and ancmalies of tooth morphology, and dental anatomy, illuetrate by zoans of labelled drawings.

The individial tcoth involved.
and the portion of the crow on the teeth involved
anded. -i

 the mandible and indicate on the diagram: entric relation 1.
2.
3.
4. Aentric positiced centric Acquired centrie

Long centric
Lerminal hinge position
Postural rest position




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${ }^{2 n}$
4. "Diet, molar patterns, dental formulae and temporomandibular
joint anatomy are all interrelated".
With your knowledge of comparative anatomy, and with the aid
of diagrams, discuss.

UNIVERSITY OF TORONTO
Faculty of Dentistry
Annual Examinations, 1968

## FIRST YEAR

## HISTOLOGY (Part II)

NOTE: Answer each question in a separate examination book (or books). Use illustrations wherever possible. Be brief.

## MARKS

10 1. Discuss the development of the dental pulp up to the completion of primary dentin formation.
2. In table form compare the hard tissue genesis of bone, dentin, cementum and enamel.

15 3. a) List the features common to endocrine glands.
b) With the above features in mind compare the microscopic structure of the thyroid gland with that of the Islets of Langerhans.

15 4. Keeping in mind the relation between structure and function, and in table form only, compare and contrast the mucous membranes of the following:

Attached gingiva
Gall bladder
Duodenum
Trachea
10 5. Briefly compare the histological structure and functions of the distal tubule (thick portion of the ascending limb of Henle's loop) of the kidney nephron with those of the striated duct of the parotid gland.
UNIVERSITY OF TORONTO
Faculty of Dentistry annual examinations, 1968 SECOND YEAR
BACTEPIOLOGY
(a) What are the structures and properties of human antibody (b) globulin?



1. Explain the following terms using appropriate examples:

$$
\begin{aligned}
& 10 \text { 2. Explain the following terms using approf } \\
& \qquad \text { (a) Virulence } \\
& \text { (b) Blocking antibody } \\
& \text { (c) Erythroblastosis faetalis } \\
& \text { (d) Shwartzman phenomenon }
\end{aligned}
$$

受
3. What are the principles for the selection of antibiotics, the route of administration, and the dosages fo
infectious diseases caused by streptococci.
4. Discuss the pathogenesis, laboratory diagnosis, epidemiology
and prevention of poliomyelitis.
5. Discuss briefly the hypersensitivity disoases involving 6. Give a short

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##  <br> 

## (b) Shick test <br> (e) Use dilution test for disinfectants

A. Discuss the causes of bacterial food poisoning. What are
the causative agents in the laboratory? What are the treatments?
B. Discuss the differences in the pathogenesis, clinical
infection
to confirm symptoms, and epidemjology between primary herpes
and Varicella. What are the laboratory procedures
the diagnosis?
8. Write a short note on any four of the following:
(a) Candida infections

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# Second Dental Year 

GENERAL PATHOLOGY

No paper available

# Second Dental Year 

 PHYSIOLOGYNo paper available

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Periodontics

UNIVERSITY OF TORONTO FACULTY OF DENTISTRY

## Annual Examinations, 1968 <br> THIRD YEAR <br> ANAESTHESIA

MARKS
25 1. Discuss the following local anaesthesia agents:

1) lidocaine
2) prilocaine
3) mepivacaine

Utilize the following headings:
a) comparative chemistry
b) solutions available
c) indications for each solution

25 2. Discuss post-operative control of pain under the following headings:
a) indications
b) drugs involved
c) dosages and prescription instructions

25 3. Enumerate the indications for general anaesthesia in dentistry.

25 4. A) Discuss the central and reflex control of breathing in the normal subject prior to a general anaesthetic
B) Discuss the changes in the control of breathing that one might expect to be associated with a general anaesthetic.

# UNIVERSITY OF TORONTO <br> Faculty of Dentistry 

## ANNUAL EXAMINATIONS, 1968

## THIRD YEAR - PERIODONTICS

1. Make a drawing (use at least ore full page) of a low power magnification of a lower incisor tooth and its supporting structures in cross section clearly indicating the anatomic histologic and pathologic details of the most common type of periodontal disease at a medium stage of progress. Drawing must be legible and accurately labelled.
2. a) List 10 local factors which may contribute to gingival and/or periodontal disease.
b) List 5 systemic factors which may contribute as predispositions to periodontal disease or may help to exaggerate the tissue response to local irritants.
3. Discuss herpetic gingivo-stomatitis and aphthous stomatitis under the following headings:

Cause, Signs, Symptoms, Therapy.
4. a) List signs and symptoms of dysfunctions of the muscles of masticatior and the temporo-mandibular joints.
b) List main causes of the temporo-mandibular joint syndrome.
c) Discuss procedures for the treatment of an acute temporo-mandibular joint disturbance. i.e. one where the patient is having extreme pain.
5. a) What are the indications for the use of a displacement pack?
b) What are the indications for the use of the gingivectomy procedure?
c) What are the indications for the use of a flap procedure?

III year
Dutitel cón a Provimtive Dentístry

# UNIVERSITY OF TORONTO <br> Faculty of Dentistry 

Annual Examinations, 1968

## THIRD YEAR

## NUTRITION AND PREVENTIVE DENTISTRY

Please Answer Parts A and B in separate books.

## Part A

17 I. (a) It is possible to estimate approximately in terms of nutrients, the nutritional adequacy of a diet by using a qualitative method of diet analysis based on Canada's Food Guide. Discuss.
(b) On which food groups and nutrients would you place emphasis in counselling the following:
(a) Chidren and adolescents
(b) All caries susceptible patients.
(Answer briefly).

## Part B

12 I. List the physical properties and chemical constituents of saliva which influence the dental caries process, and explain how they act.

12 2. Describe, briefly, the theories on the mechanism of action of fluoride in reducing caries incidence.

## Part B Cont'd.

## $\underline{M A R K S}$

14 3. Discuss the dental plaque under the following headings:
(a) Composition
(b) Mechanism of attachment
(c) Processes involved in the formation and building of plaque.
(d) Metablic activities of plaque bacteria in respect to carbohydrate.

12 4. Write a short note on the development of caries in experimental animals and indicate how these findings relate to our knowledge of human caries.

# Third Dental Year <br> ORAL PATHOLOGY 

No paper available
Part $I$.
Part I is to be written in the examination books.
Parts II, III, IV and $V$ must be handed in at the
completion of the exarination.
Please print your name on every sheet.

M.A. Kumar
W.C. Sturtr

## W.C. Sturtridge

Third year
PHARMACOLOGY
Examiners: F.A.Sunahara Time: 3 hours
UNIVERSITY CH TORONTO

Third Year
Part $I$.
Please answer any three of the foll wing four questions.


## Third Dental Year

## PHARMACOLOGY. PART II.

No paper available

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# UNIVERSITY OF TORONTO <br> Faculty of Dentistry 

ANNUAL EXAMLNATIONS, 1968

## THIRD YEAR

15 1. Describe and explain the early management of a patient with a $40 \%$ body area burn.

15 2. Describe the clinical features and treatment of a patient with acute hematogenous osteomyelitis.

15 3. Describe the clinical features and treatment of a basal cell carcinoma on the face.

15 4. (a) Describe the clinical features of a patient with a fracture of a long bone.
(b) Enumerate the complications that may arise from such a fracture.

## ORAL SURGERY

Please answer in a separate book.

10 I. Describe your management of a patient who presents with an infected mandibular first molar due to caries, The toothache has somewhat subsided but there is a noticeable edema of the lower part of the face. The tooth is beyond repair.

## QRAL SURGERY

## MARKS

10 2. Discuss briefly the following:
a) Subperiosteal abscess caused by a decayed tooth.
b) Cellulitis of dental origin
c) Apical granuloma
d) Transient bacteraemia following removal of teeth.
e) Anatomic structures through which a hypodermic needle passes for mandibular nerve anaesthesia.

10 3. List the 10 most important medical conditions which should be investigated and considered prior to removal of teeth. Briefly discuss each one.

10 4. a) List uses of Penicillin for therapeutic and prophylactic purposes.
b) What combinations of antibiotics are used and what combinations are not used and why?

IV year
Dintal Pablis Health
Practice Cermin is tration Qedodontics.

## ENDODONTICS

## MARKS

15 2. As a result of trauma a child 7 years of age experiences a mesio angular fracture of the crown of a maxillary right permanent central incisor exposing the entire pulp horn. The accident reportedly occurred 12 hours prior to the child's visit to the dental office. Clinically there is no bleeding present at the site of the exposure. The pulp reacts to the stimulation of heat and cold. Radiographically the root of the tooth shows partial development with a divergence of the root canal walls in the apical third.

## Discuss:

(a) The type of treatment indicated and the reason for your choice.
(b) The step by step procedures of this treatment.
(c) The effect of the treatment giving consideration to the biological repair and possible complications.
(d) The information given to the parent conceming possible future treatment.

5 3. Describe the indications for periapical surgery following root canal obliteration.






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UNIVERSITY OF TORONTO
Faculty of Dentistry
Annual Examinations, 1968

## FOURTH YEAR

## DENTAL PUBLIC HEALTH

## MARKS

17 1. It is apparent that there is not enough dental manpower in Canada and more planning should be done to ensure proper dental health care for Canadian citizens in the future.
a) Give a brief account of the Swedish, British, and New Zealand methods of providing dental care for children.
b) Discuss which features of these systems could be contained in a dental health service for Canadian children, giving reasons for your choices.
2. Do Part (a) OR (b).
a) List three criteria which may be used to recognize a health problem as a public health problem. Appl: these criteria to one of the three major types of dental disease to demonstrate that the selected dental disease qualifies as a public health proble:
b) There is a parallel between the methods or steps used in dealing with patients in private and in public health practice. In point form, list these steps for both private and public health practice so that this parallel is evident.

## DENTAL PUBLIC HEALTH CONT'D.

3. Dental prepayment plans, designed to permit people to budget for dental care costs, are increasing rapidly in number in the United States. Such plans are now starting in Canada.
a) What should the over-all objective of these plans be?
b) What main factors do you think should be considered in designing these plans?

## PRACTICE ADMINISTRATION

1. What are the advantages of a'good recall' system
to: (a) the Patient?
(b) the Dentist?
2. Enumerate methods which help to prevent broken appointments in a dental practice.
3. (a) What bookkeeping records are required for income tax purposes?
(b) Briefly explain one of these entry forms.
4. Give a method of calculating the fixed hourly overhead of operating a practice.
5. What is meant by a 'fair fee' for dental treatment?


## ENDODONTICS CONT'D.

4. What criteria would indicate that a root canal is ready for obliteration?

IV year
Deretal Radiollogy
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UNIVERSITY OF TORONTO
Faculty of Dentistry
Annual Examinations, 1968

## FOURTH YEAR

## DENTAL RADIOLOGY

MARKS

15

23

12

1. Describe periapical osteofibrosis, fibrous dysplasia, and Paget's disease under the following headings: -

Age incidence. Sex incidence. Site.
Radiographic appearance.
Differential radiographic interpretation. Clinical findings.

Use diagrams to illustrate your answer where necessary
2. With this examination paper there are six prints of radiographs. Write a complete report of each case.

The six prints must be handed in with your answer book.
3. Discuss the various extra-oral radiographic projection which may be of use in dentistry.

Deal with this question under the following headings:
Structures visible. Radiographic technique. Uses.

If illustrations are of help in answering this questio they may be used.

## ORAL SURGERY AND ANAESTHESIA

1. Describe your management of a healthy male patient, age 30, with an acutely abscessed mandibular right first molar with moderate swelling of the right side of the floor of the mouth. The tooth is beyond repair.
2. List conditions in the oral cavity that may be advantageously corrected surgically before construction of complete maxillary and mandibular dentures is undertaken.
3. Describe briefly the surgical phase of:
(a) the removal of roots of maxillary right second molar fractured in the process of removal. All three roots are fractured. Adjacent teeth are present.
(b) Removal of apical third of root of mandibular left lateral incisor in an edentulous mouth.
4. Outline in point form your management of the following cases:
(a) removal of maxillary lateral incisor on a patient on anticoagulant therapy whose prothrombin time is 22 seconds. (Quick method normal 13)
(b) A female patient who is $8 \frac{1}{2}$ months pregnant with a severely aching second maxillary bicuspid which is beyond repair.
(c) A twelve year old female patient who suffered loss of a maxillary central incisor in a playground accident with no other concomitant injuries and who presents within two hours with the tooth in hand.

## ORAL SURGERY AND ANAESTHESIA CONT'D.

## MARKS

4. Cont'd.
(d) A patient with a prognathic mandible and badly neglected dentition which is beyond repair presents for complete clearance of remaining teeth.
(e) A male patient, age 35, presents with history of a severe pain due to pulpitis of mandibular first molar the day before and who has consumed 3 dozen aspirins ( 5 grains each) in an attempt to control pain.

## Please answer Question 5 in a separate book.

10 5. Discuss the application of sedation in dentistry under the following headings:
a) Indications and contra-indications for the general practitioner
b) Choice of drugs
c) Techniques and dosages
d) Office armamentarium

IV year
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UNIVERSITY OF TORONTO
Faculty of Dentistry
Annual Examinations, 1968

## FOURTH YEAR

20 1. Discuss the way in which factors in a patient's history may influence your formulation of an appropriate treatment plan.

15 2. Write brief notes on the following:
a) Oral pemphigus
b) Median rhomboid glossitis
c) Oral moniliasis

15 3. A young adult presents with a complaint of recent development of tender enlargement of the gingiva. Outline the procedure you would follow to investigate the condition.

## MEDICINE

5 1. (a) List five substances produced by virulent streptococci which aid in their ability to produce infection and to spread throughout the body.

10 (b) Outline your method of treating an individual with Chronic Rheumatic Valvular Heart Disease who requires "traumatic" dental work, and discuss briefly why you are suggesting this treatment.

## MEDICINE CONT'd.

2. (a) Compare "Growth-Onset" and "Maturity-Onset" diabetes mellitus.
(b) Relate the metabolic abnormalities in diabetes mellitus with the following clinical features:
i) polyuria and polydipsia
ii) weakness and fatigue
iii) ketoacidosis
3. Answer any 5 of the following: ( 5 marks each).
(a) What is the mode of action of Sulphonamides in combatting some bacterial infections?
(b) Sulphonamides are said to be useful in the prevention of acute streptococcal infections, but not in the treatment of them. Give an explanation of this statement.
(c) What is the mode of action of Tetracyclines, and what are some adverse reactions to them?
(d) List five instances in which the prophylactic use of antibiotics in justified.
(e) List five sites of action of antibiotics, and give an example for any two of them.
(f) Write a short eote distinguishing bacterial resistance from superinfection.

## Fourth Dental Year ORTHODONTICS

## PAEDODONTICS

No paper available

IV year.
Restorative Drutístry

# UNIVERSITY OF TORONTO <br> Faculty of Dentistry 

Annual Examinations, 1968

## FOURTH YEAR

RESTORATIVE DENTISTRY
MARKS
20 I. Discuss how a knowledge of Histology of the tooth influences Operative procedures in restorative dentistr:

10 2. a) List the main steps in the preparation of a pinslipper inlay on an upper central incisor.
b) Describe a good method of temporization for this preparation while the inlay is being fabricated.
c) When is this preparation indicated?

5 3. By means of illustration, submit two possible designs for a fixed bridge replacing an upper cuspid, where onl this tooth is missing.

Please answer Questions 4. 5 and 6 in a separate book.
10 4. Discuss briefly the "Burning Mouth Syndrome".
15 5. Discuss the rationale of the use of soft liners and the application in prosthodontics.

10 6. Compare the precision type of direct retainer with the conventional circumferential retainer by considering the following aspects:
a) How retention is derived.
6. Cont'd.
b) Indications for usage for each.
c) Advantages and disadvantages of each type.

## Please answer Questions 7. 8 and 9 in a separate book.

10 7. List steps employed in a functional analysis of occlusion in Periodontics.
8. State the significance of the following observations (made while performing functional occlusal analysis).
a) Sound is dull when back teeth are tapped together forcibly.
b) The mid-line between lower incisors deviates to one side as the teeth are closed from rest position to occlusion.

5 9. a) List causes of recession of the gingival tissues.
b) Illustrate, by drawings, the three most common direct local causes of recession of the gingival tissues.


UNIVERSITY OF TORONTO
Faculty of Dentistry
ANNUAL EXAMINATIONS, 1968
FIRST YEAR DENTAL HYGIENE
PART A - ORAL ANATOMY \& OCCLUSION
Please answer Part A and Part B in separate books.

## MARKS

You are conducting an examination and recordin a history of a dental patient 12 years of age.

40 A. The examination reveals the following:

1. A class 11 , division 11 malocclusion.
2. A freeway space of seven millimetres.
3. An overjet of four millimetres.
4. An overbite of seventy percent.
5. A carious lesion involving:
a) The mesial labial incisal point angle of the maxillary right lateral incisor.
b) The mesial cervical clinical zone of the labial surface of the mandibular right cuspid.
c) The distal buccal developmental groove of the mandibular right first molar.
d) The transverse groove of the oblique ridge of the maxillary right first molar.
e) The mesial lingual supplemental groove of the maxillary right first premolar.

Illustrate separately the above conditions (1,2,3,4,5 $a, b, c, d, e)$ by means of labelled drawings which stress dental anatomy.

* A major proportion of the marks will be allotted for your knowledge of the dental anatomy of the teeth concerned.


## ORAL ANATOMY CONT'D.

B. The history reveals that the patient suffered a severe systemic condition during the first year of life which caused enamel hypoplasia of the developing dentition.

With your knowledge of the chronology of the dentition, variations and anomalies of tooth morphology, and dental anatomy, illustrate by means of labelled drawings,

1. The individual teeth involved.
2. The affect of the condition on the teeth involved and the portion of the crown affected.

## PART B - GROSS ANATOMY

1. Describe the female reproductive system.
2. Discuss the nerve supply to the teeth in the maxilla and the mandible.
3. Describe the temporal-mandibular joint.
4. Discuss briefly only two of the following:
a) The gall bladder.
b) The submandibular gland.
c) The right atrium and left ventricle of the heart.
UNIVERSITY OF TORONTO
Faculty of Dentistry Annual Examinations, 1968
FIRST YEAR DENTAL HYGIENE
BACTERIOLOGY
Explain the following terms using an example in each case:
Virulence Widal test
Endotoxin
(d) Repressor substance
5. Give a description of any two of the following:
MARKS
10
10
10 3. What are the bacterial and host mechanisms in the development
and healing of a sore throat caused by pyogenic streptococci?
10 4. What are the events during childhood and adult life which can
(a) What is the pathogenesis of tuberculosis? What therapeutic
and preventive measures have caused the incidence to drop
in the last decade?
(b) What is the relationship of the life cycles of the malaria
parasite and the development and spread of malaria? What
therapeutic and preventive measures are available?
10 7. What factors in the relationship between host, drug and bacteria
influence the choice of the type and dose of antibiotics during
therapy of an infectious disease?
20 8. Write a short note about any four of the following : (a) Food poisoning
(b) Puerperal fever
(c) Beneficial role of the normal bacterial flora
(d) Erythroblastosis faetalis
(e) Rheumatoid arthritis
(f) Role of M, N, S and s blood groups in transfusions
(g) Contact dermatitis
ST
UNIVERSITY OF TORONTO
Faculty of Dentistry
ANNUAL EXAMINATIONS, 1968
FIRST YEAR DENTAL HYGIENE
Introduction to Biological Chemistry
and Human Nutrition 100.


> FIVE Answers constitute a complete paper.
All questions are of equal credit.

1. Describe the conditions which result from a deficiency of FOUR or in that nutrient.

$$
\begin{array}{ll}
\text { (a) Thiamin } & \text { (d) Iron } \\
\text { (b) Ascorbic acid } & \text { (e) Retinol } \\
\text { (c) Nicotinic acid } & \text { (f) Protein }
\end{array}
$$

 'hub of metabolism'. Justify the use of this term as applied to the inter-relationship of protein, fat and carbohydrate.

$$
\text { Answer EITHER } 3 a \text { OR } 3 b
$$

$$
\begin{aligned}
& \text { 3a. Give the meaning of FIVE of the following terms and write a } \\
& \text { brief note on their biological significance. }
\end{aligned}
$$


3b. Draw a diagram of a typical onimal cell. Label the structures and give specific functions for each.
4. Define the term 'Dietary Standard'. Discuss and compare the Answer EITHER 5 OR
5. Outline the roles played by the following nutrients in the OR
 a fluoridated municipal water supply.
UNIVERSITY OF TORONTO
Faculty of Dentistry Annual Exaninations, 1968 EMEIDKH TVINGC GUGE ISELS Warish
Answer FOUR questions, one from each section and the fourth from
any section, not imite on the same text twice. A 1. "The real hero of Joseph Andrews is Parson Adems." Discuss.
 Hoiphts.
3. Comment on the treatment of isolation in A Portreit of the
Artist and Catcher in the Rye.
B
 Discuss.
 or A Doll's House.
6. Discuss the effectiveness of the stege setting in A Streotcar
Komed Dosire.
7. Compare the treetment of tire in Oedipus Rex and Wuthering

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8. Compare Militon's treetment of light and darkness in either
Paredise Logt or TWO or THREB other poems. Paredise Lost or TWO or THRES other poens.
9. Trace the changing attitude to Nature in Wordsworth's poetry.
10. Compare the function of a speaker in several poens by Brouning and
TWO or THREE of his poems.
12. Write e critical axalysis of the following poem: Nature's first grean is gold,
Her hardest hue to hold.
Her eerly leaf's a flower
But only so an hour.
So Eden sank to grief,
So dewn goes down to da
Nothing gold can stay.
(Robert Frost)


UNIVERSITY OF TORONTO
Faculty of Dentistry
Annual Examinations, 1968
FIRST YEAR DENTAL HYGIENE

## HISTOLOGY

## MARKS

15 1. a) By means of a fully labelled drawing illustrate the microscopic anatomy of the periodontal ligament in the area of the middle third of the root.
c) By means of a fully labelled drawing illustrate the microscopic anatomy of any one specific example in the above classification of mucous membranes.

35 3. Draw the following and label fully.
a) cementum in a trifurcation area
b) Tomes' granular layer
c) transition area of the lip
d) alveolar bone proper
e) age changes in the dental pulp
f) interstitial space of the periodontal ligament
g) an area of root resorption

25 4. Write notes on and illustrate the following:
a) odontoblast
b) ameloblast
c) enamel organ
d) dental lamina
e) reparative dentin

# First Year Dental Hygiene PSYCHOLOGY 

No paper available

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## PA EDODONTICS

## MARKS

15 1. (a) Define the following terms which are frequently used in paedodontia:

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i) Cligodontia
ii) £upernumerary tooth
iii) Ankylosis
iv) Fiypoplasia
v) Diastema
vi) Anodontia
vii) Supplemental tooth
viii) Ectopic eruption
ix) Mid-line shift
x) Eypocalcification
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(b) Name one cause for each condition (or systemic disturbance, whichever is applicable) in which each of the above anomalies can be found.

10 2. (a) List 5 possible sequelae subsequent to premature loss of deciduous teeth.
(b) List 5 ways by which the paedodontist preserves space for the developing permanent teeth.

# UNIVERSITY OF TORONTO Faculty of Dentistry 

## Annual Examinations, 1968

SECOND YEAR DENTAL HYGIENE

## CLINICAL NUTRITION

## MARKS

10 1. It is possible to obtain a fairly good idea of the nutritional adequacy of a diet in terms of nutrients by use of a qualitative method of dietary analysis based on Canada's Food Guide. Explain.

15 2. Write and discuss dietary recommendations for the following: -
(a) A 14 year old boy - 15 Ibs. overweight - with rampant caries - Swab 3.6 and L. Acidophilus count 300,000. Food intake record showed an adequate intake of meat, eggs, potatoes, cereals and bread and an extremely high intake of cariogeni, foods.
(b) A 5 year old girl - average weight - moderate to high caries susceptibility - Swab 4.0 and L. Acidophilus count 20,000. Diet adequate nutritionally.
(c) An adult - 10 lbs. underweight - caries inactive Swab 4.8 - L. Acidophilus count zero. Food intake record showed extremely low intake of calcium, vitamin C, vitamin A and protein and no cariogenic foods.

## PREVENTIVE DENTISTRY

## ARKS

15 1. Write a short paragraph under each of the following, stressing the main points:
(a) Dental fluorosis
(b) The mechanism of action of topical
fluorides in the prevention of dental caries.
(c) The role of saliva as a natural defence mechanism in oral health.

10 2. In point form, state the important findings of the Vipeholm Study as they relate to carbohydrate consumption and dental caries.

## DHITAL PUBLIC HEALTH

## MARKS

10 1. Some dental health procedures or measures are best organized and implemented on a group or community basis rathor thon on an individual or private office basis. List three sach procedures or measines and elaborate briefly on one of thesc til show why the group approach might be sizperior.

9 2. List three criteria which can be used to recognize hoalth probems as public health probleris. By rppiying tiese criteria show whether dental carics qualifies is a ublic health problem.

5 3. Answor only TWD of the following:
(i) Indicate by means of a sketch how official and unofficial agencies with an interest in dental health are organized. What is one key factor which sets these two basic arencies apart from each other?
(ii) Discuss briefly the role of mass media in dental health education.
(iii) Describe the concept of "severity levels" as introduced by the new W.H.O. simplified dental survey system.
(iv) When speaking of populations and water fluoridation what does the term percentage possible mean? Give an example.


Pathotagy
Prvis donties

# UNIVERSITY OF TORONTO Faculty of Dentistry 

ANNUAL EXAMINATIONS, 1968
SECOND YEAR DENTAL HYGIENE

## PATHOLOGY

## MARKS

10 1. Give brief descriptions of:
(a) Actinomycosis
(b) Leprosy
(c) Coccidioidomycosis
(d) Carcinoma-in-situ
(e) Basal cell carcinoma

15 2. Describe the anatomic peculiarities of dental pulp tissue.

10 3. Name and describe briefly five lesions of the dental pulp.

15 4. Describe the development and microscopic appear ance of a dental granuloma.

- 2 -


## PERIODONTICS

1. (a) Describe a method for differentiation of periodontitis simplex and periodontitis complex.
(b) Describe, using drawings, periodontal pockets most commonly present with periodontitis simplex and periodontitis complex.
2. Describe, using drawings, factors which influence the mobility of teeth.
3. List five predisposing causes of bleeding of the gingivae.
4. Describe the differences between supragingival calculus and sub-gingival calculus.

# Paper \# 3 <br> Second Year Dental Hygiebe <br> PHYSIOLOGY 

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SECOND YEAR DENTAL HYGIENE
Part A - Orthodontics
MARKS
10
2. List those intra oral procedures the Hygienist might perform to relieve the Orthodontist.
3. Briefly discuss the aetiology of malocclusion.

## Part B - Pharmacology

1. Give one example of each of the following types of therapeutic agents:
(a) caustic
(b) antibiotic
(c) sedative
(d) analgesic
(e) vasoconstrictor

4 2. Name two drugs that may be used to reduce salivary flow.

## ARKS Part B - Pharmacology Cont'd.

6 3. What are the three drugs contained in analgesic tablets known as A.P.C.'s?

6 4. Give one example each of the following types of barbiturates:
(a) Long-duration
(b) Medium-duration
(c) Short-duration

3 5. List in order of expected effectiveness three ways a drug may be administered.
6. Give one example for each, of a therapeutic agent that may be used for the following:
(a) Reduce inflammation
(b) Treat mild allergic reactions
(c) Control post-operative bleeding

## Paper \# 5

## Second Year Dental Hygiene <br> SOCIOLOGY

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